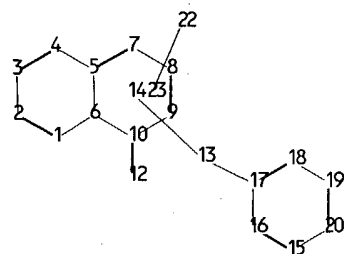
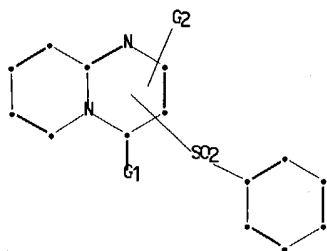


L Number	Hits	Search Text	DB	Time stamp
1	1328	((544/250) or (544/252) or (544/282) or (514/259.4) or (514/259.41) or (514/267)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/04 11:53



chain nodes :

12 13 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 15 16 17 18 19 20

chain bonds :

10-12 13-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 15-16 15-20 16-17 17-18 18-19
19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 10-12

exact bonds :

13-17

normalized bonds :

15-16 15-20 16-17 17-18 18-19 19-20

G1:O,N

G2:O,S,N,SO2

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:CLASS
13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 22:CLASS
23:CLASS

=>

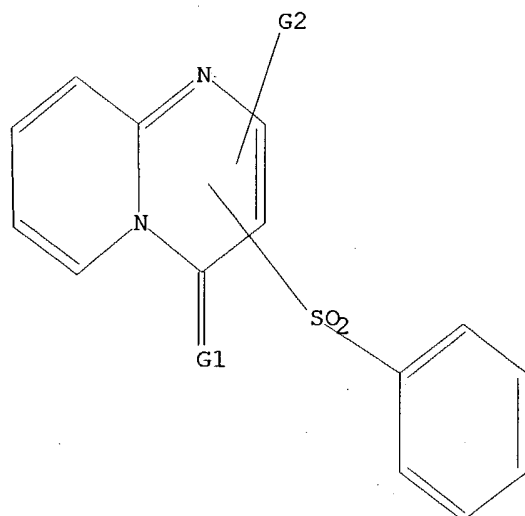
Uploading 10620240.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,N

G2 O,S,N,SO2

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 16:17:07 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 498 TO 1302

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss ful

FULL SEARCH INITIATED 16:17:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 934 TO ITERATE

100.0% PROCESSED 934 ITERATIONS

45 ANSWERS

SEARCH TIME: 00.00.01

L3 45 SEA SSS FUL L1

=> s 13

L4 2 L3

=> d 14 1-2 bib,ab,hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:80350 CAPLUS
 TI Preparation of pyridopyrimidines as 5-HT6 antagonists
 IN Wu, Yong-jin; Hu, Shuanghua; Scola, Paul M.; Huang, Yazhong; Grant-Young, Katharine A.
 PA USA
 SO U.S. Pat. Appl. Publ., 19 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

← Appl.

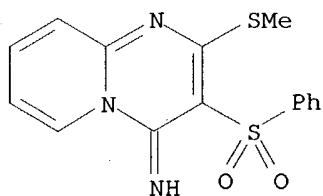
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004019064	A1	20040129	US 2003-620240	20030715
PRAI	US 2002-398929P	P	20020726		

AB The title compds. [I; R1 = (un)substituted naphthyl, Ph; R2 = 5-methylpyridin-2-yl, alkyl, hydroxyalkyl; R3 = H, halo, alkyl, benzyloxy; R4 = H, alkyl; R3 and R4 together, optionally form a 5-6 membered aryl having 0-2 heteroatoms; R5 = H, halo, alkyl, CH₂Ph, COR₈; X = NR₆, O, SOM; Y = NR₇, O; m = 0-2; R₆ = H, alkyl; R₇ = H, alkyl, CO(alkyl); R₈ = alkoxy, (un)substituted NH₂, OH] which have a binding affinity for the human 5-HT₆ receptor and, therefore, are useful in treating disorders responsive to antagonism of the 5-HT₆ receptor such as psychosis, schizophrenia, manic depression, depression, neurol. disorder, memory disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's chorea, were prep'd. Prepn. of 35 compds. I is described. The compds. I were tested for binding at the 5-HT₆ receptor. E.g., I [R1 = 4-ClC₆H₄; R2 = Me; R3-R5 = H; X = S; Y = NH] showed IC₅₀ of <20 nM against 5-HT₆ binding. Pharmaceutical compn. comprising the compd. I is claimed.

IT **614732-18-2P**
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of pyridopyrimidines as 5-HT₆ antagonists)

RN 614732-18-2 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-, (4E)- (9CI) (CA INDEX NAME)



IT 613674-38-7P 613674-40-1P 613674-42-3P
 613674-44-5P 613674-46-7P 651310-61-1P
 651310-62-2P 651310-63-3P 651310-64-4P
 651310-65-5P 651310-66-6P 651310-67-7P
 651310-68-8P 651310-69-9P 651310-70-2P
 651310-71-3P 651310-72-4P 651310-73-5P
 651310-74-6P 651310-75-7P 651310-76-8P
 651310-77-9P 651310-78-0P 651310-79-1P
 651310-80-4P 651310-81-5P 651310-82-6P

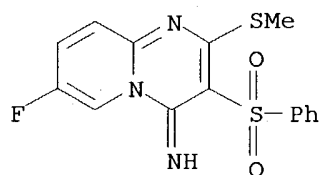
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 651310-95-1P 651310-96-2P 651310-97-3P
 651310-98-4P 651310-99-5P 651311-00-1P
 651311-01-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyridopyrimidines as 5-HT6 antagonists)

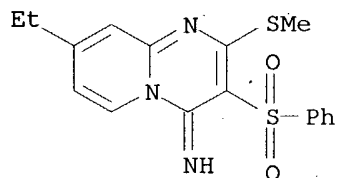
RN 613674-38-7 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 7-fluoro-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



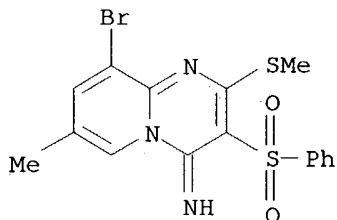
RN 613674-40-1 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 8-ethyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



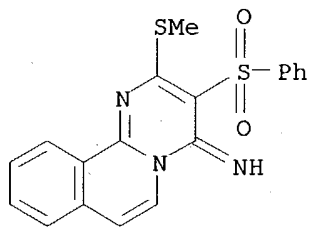
RN 613674-42-3 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 9-bromo-7-methyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



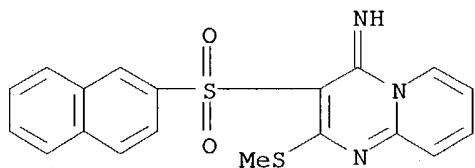
RN 613674-44-5 CAPLUS

CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



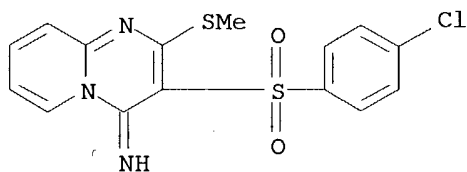
RN 613674-46-7 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)



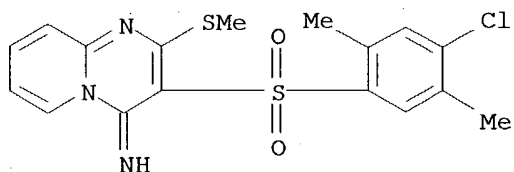
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CN INDEX NAME NOT YET ASSIGNED



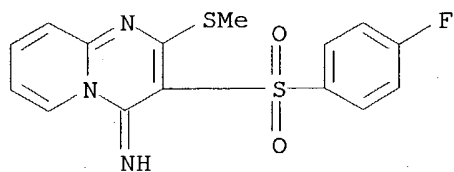
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CN INDEX NAME NOT YET ASSIGNED

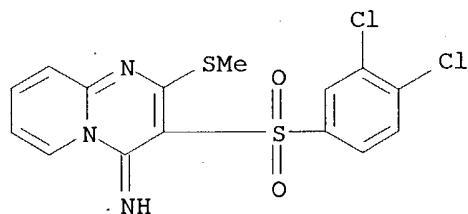


RN 651310-63-3 CAPLUS

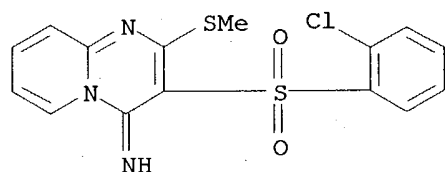
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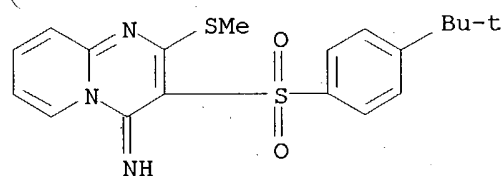
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CN INDEX NAME NOT YET ASSIGNED



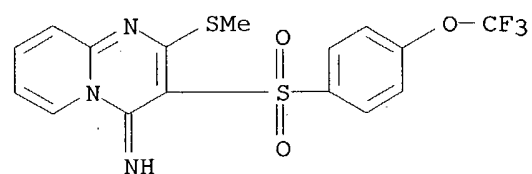
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CN INDEX NAME NOT YET ASSIGNED



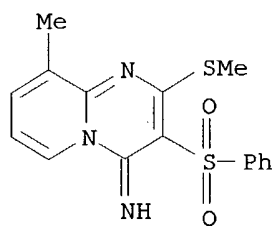
RN 651310-66-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



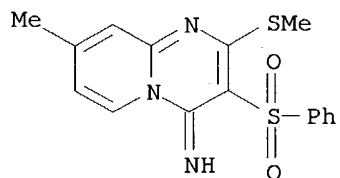
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CN INDEX NAME NOT YET ASSIGNED



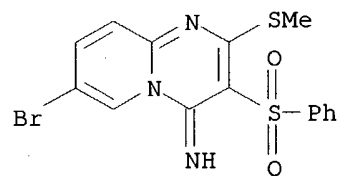
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CN INDEX NAME NOT YET ASSIGNED



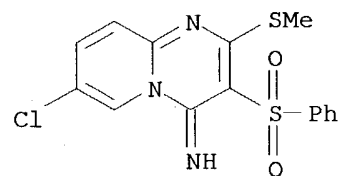
RN 651310-69-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



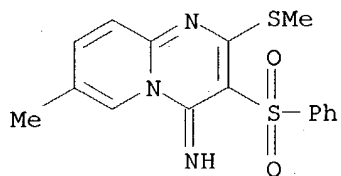
RN 651310-70-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



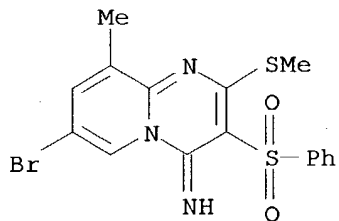
RN 651310-71-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



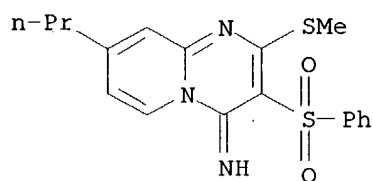
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CN INDEX NAME NOT YET ASSIGNED



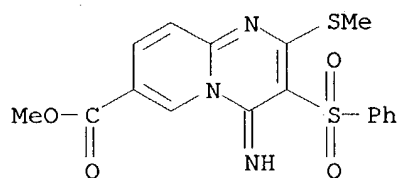
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CN INDEX NAME NOT YET ASSIGNED



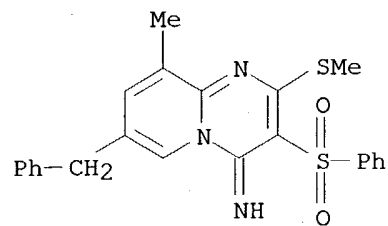
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CN INDEX NAME NOT YET ASSIGNED



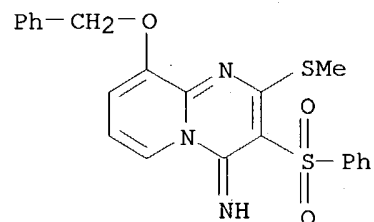
RN 651310-75-7 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidine-7-carboxylic acid, 4-imino-2-(methylthio)-3-(phenylsulfonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 651310-76-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



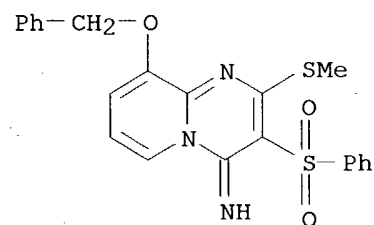
RN 651310-77-9 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



RN 651310-78-0 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

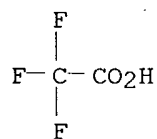
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CM 2

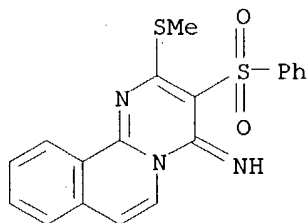
CRN 76-05-1
 CMF C2 H F3 O2



RN 651310-79-1 CAPLUS
 CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-,
 mono(trifluoroacetate) (9CI) (CA INDEX NAME)

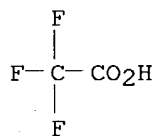
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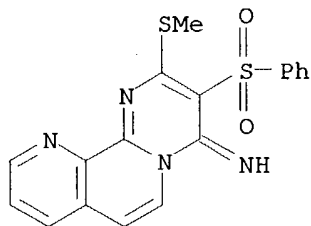


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CRN 76-05-1
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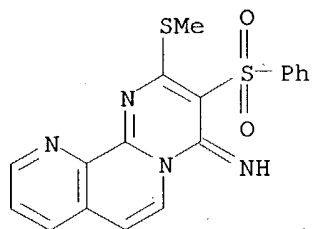
RN 651310-80-4 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



RN 651310-81-5 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

CM 1

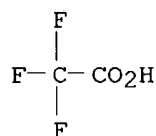
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CM 2

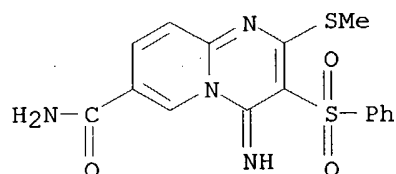
CRN 76-05-1

CMF C2 H F3 O2



RN 651310-82-6 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidine-7-carboxamide, 4-imino-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



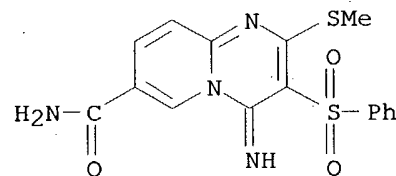
RN 651310-83-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

CM 1

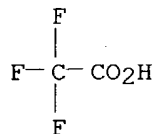
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CMF C16 H14 N4 O3 S2

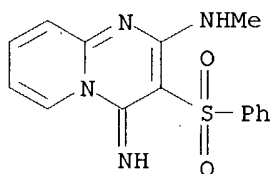


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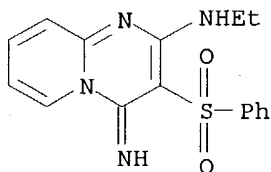
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CMF C2 H F3 O2



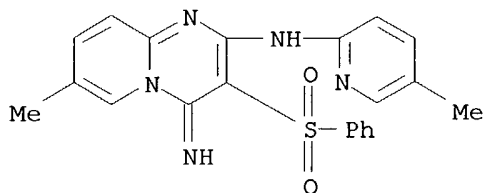
RN 651310-84-8 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-N-methyl-3-(phenylsulfonyl)-
(9CI) (CA INDEX NAME)



RN 651310-85-9 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, N-ethyl-4-imino-3-(phenylsulfonyl)-
(9CI) (CA INDEX NAME)



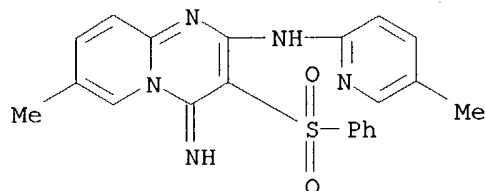
RN 651310-87-1 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-7-methyl-N-(5-methyl-2-pyridinyl)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 651310-88-2 CAPLUS
CN 4H-Pyrido[1,2-a]pyrimidin-2-amine, 4-imino-7-methyl-N-(5-methyl-2-pyridinyl)-3-(phenylsulfonyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

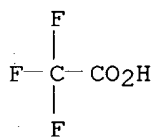
CM 1

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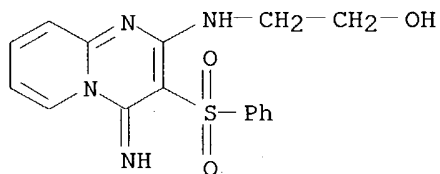


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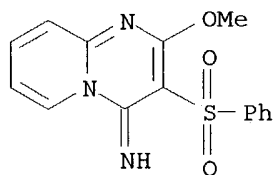
CRN 76-05-1
CMF C2 H F3 O2



RN 651310-89-3 CAPLUS
CN Ethanol, 2-[[4-imino-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 651310-91-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

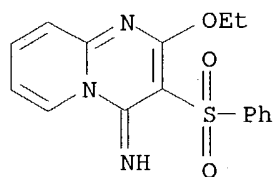


RN 651310-93-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 651310-92-8

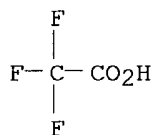
CMF C16 H15 N3 O3 S



CM 2

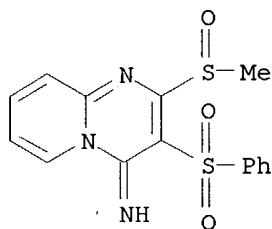
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CMF C2 H F3 O2



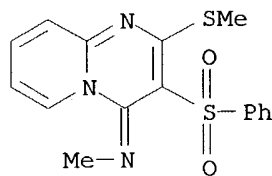
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CN INDEX NAME NOT YET ASSIGNED



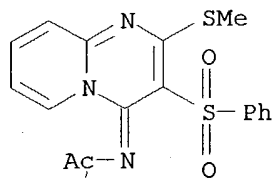
RN 651310-95-1 CAPLUS

CN Methanamine, N-[2-(methylthio)-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-4-ylidene]- (9CI) (CA INDEX NAME)



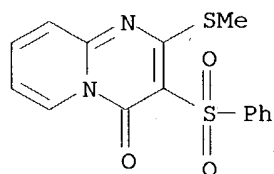
RN 651310-96-2 CAPLUS

CN Acetamide, N-[2-(methylthio)-3-(phenylsulfonyl)-4H-pyrido[1,2-a]pyrimidin-4-ylidene]- (9CI) (CA INDEX NAME)



RN 651310-97-3 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-one, 2-(methylthio)-3-(phenylsulfonyl)- (9CI)
(CA INDEX NAME)



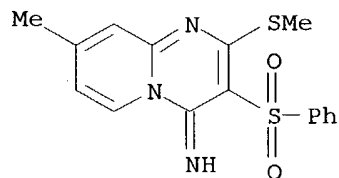
RN 651310-98-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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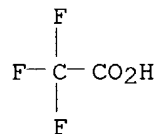
CMF C16 H15 N3 O2 S2



CM 2

CRN 76-05-1

CMF C2 H F3 O2

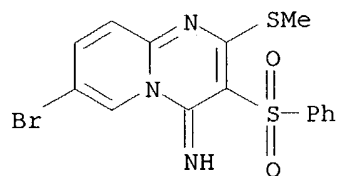


RN 651310-99-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

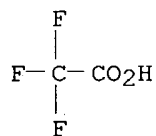
CM 1

CRN 651310-70-2
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CM 2

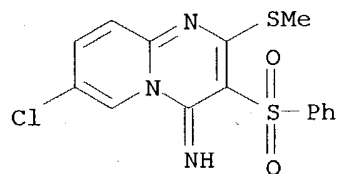
CRN 76-05-1
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RN 651311-00-1 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

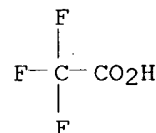
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CRN 651310-71-3
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CM 2

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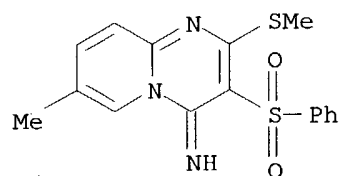
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CN INDEX NAME NOT YET ASSIGNED

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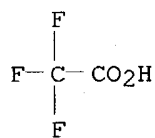
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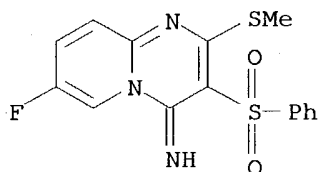
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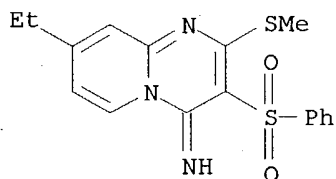
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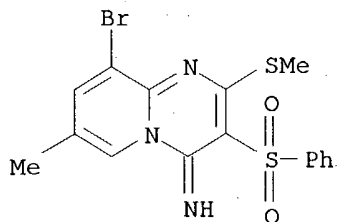
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:797156 CAPLUS
 DN 139:323484
 TI Identification of a Potent and Selective 5-HT₆ Antagonist: One-Step Synthesis of (E)-3-(Benzenesulfonyl)-2-(methylsulfanyl)pyrido[1,2-a]pyrimidin-4-ylidenamine from 2-(Benzenesulfonyl)-3,3-bis(methylsulfanyl)acrylonitrile
 AU Wu, Yong-Jin; He, Huan; Hu, Shuanghua; Huang, Yazhong; Scola, Paul M.; Grant-Young, Katharine; Bertekap, Robert L.; Wu, Dedong; Gao, Qi; Li, Yi; Klakouski, Cheryl; Westphal, Ryan S.
 CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT, 06492, USA
 SO Journal of Medicinal Chemistry (2003), 46(23), 4834-4837
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB A series of 2-(methylsulfenyl)pyrido[1,2-a]pyrimidin-4-ylidenamines, e.g. I (R₁ = n-Pr, Ph, 2-naphthyl; R₂ = H, F, Me; R₃ = H, Et; R₄ = H, Br), was synthesized and I [R₁ = Ph, R₂ = R₃ = R₄ = H; (II)] was found to be a potent and selective 5-HT₆ antagonist. A one-step synthesis of II is described.
 IT **613674-38-7P 613674-40-1P 613674-42-3P**
613674-44-5P 613674-46-7P 614732-18-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of sulfonyl-substituted (imino)(methylsulfenyl)pyridopyrimidine s as selective 5-HT₆ antagonists)
 RN 613674-38-7 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 7-fluoro-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 613674-40-1 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 8-ethyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

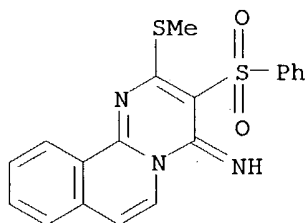


RN 613674-42-3 CAPLUS
 CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 9-bromo-7-methyl-2-(methylthio)-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



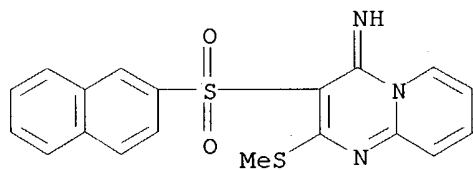
RN 613674-44-5 CAPLUS

CN 4H-Pyrimido[2,1-a]isoquinolin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-
(9CI) (CA INDEX NAME)



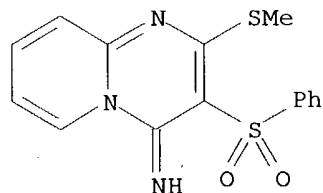
RN 613674-46-7 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 614732-18-2 CAPLUS

CN 4H-Pyrido[1,2-a]pyrimidin-4-imine, 2-(methylthio)-3-(phenylsulfonyl)-,
(4E)- (9CI) (CA INDEX NAME)



RE.CNT 29

THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/620,240

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(FILE 'HOME' ENTERED AT 16:16:34 ON 26 FEB 2004)

FILE 'REGISTRY' ENTERED AT 16:16:40 ON 26 FEB 2004

L1 STRUCTURE UPLOADED
L2 2 S L1 SSS SAM
L3 45 S L1 SSS FUL

FILE 'CAPLUS' ENTERED AT 16:17:40 ON 26 FEB 2004

L4 2 S L3

FILE 'CAOLD' ENTERED AT 16:18:13 ON 26 FEB 2004

=> s 13

L5 0 L3

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	166.42

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 16:18:24 ON 26 FEB 2004